



ST98017US PCT.ST25.txt
SEQUENCE LISTING

<110> Aventis Pharma S.A.
PARKER, Fabienne
DUCHESNE, Marc
BARLAT, Isabelle
KENIGSBERG, Mireille

<120> MONOCLONAL ANTIBODIES DIRECTED AGAINST THE G3BP PROTEIN AND USES

<130> USST98017 US PCT

<140> US 09/719, 758

<141> 2002-01-04

<150> FR98/07617

<151> 1998-06-17

<150> PCT/FR99/01453

<151> 1999-12-23

<160> 27

<170> PatentIn version 3.3

<210> 1

<211> 466

<212> PRT

<213> homo sapiens

<400> 1

Met Val Met Glu Lys Pro Ser Pro Leu Leu Val Gly Arg Glu Phe Val
1 5 10 15

Arg Gln Tyr Tyr Thr Leu Leu Asn Gln Ala Pro Asp Met Leu His Arg
20 25 30

Phe Tyr Gly Lys Asn Ser Ser Tyr Val His Gly Gly Leu Asp Ser Asn
35 40 45

Gly Lys Pro Ala Asp Ala Val Tyr Gly Gln Lys Glu Ile His Arg Lys
50 55 60

Val Met Ser Gln Asn Phe Thr Asn Cys His Thr Lys Ile Arg His Val
65 70 75 80

Asp Ala His Ala Thr Leu Asn Asp Gly Val Val Val Gln Val Met Gly
85 90 95

Leu Leu Ser Asn Asn Asn Gln Ala Leu Arg Arg Phe Met Gln Thr Phe
100 105 110

Val Leu Ala Pro Glu Gly Ser Val Ala Asn Lys Phe Tyr Val His Asn
115 120 125

ST98017US PCT.ST25.txt

Asp Ile Arg Tyr Gln Asp Glu Val Phe Gly Gly Phe Val Thr Glu Pro
 130 135 140
 Gln Glu Glu Ser Glu Glu Glu Val Glu Glu Pro Glu Glu Arg Gln Gln
 145 150 155 160
 Thr Pro Glu Val Val Pro Asp Asp Ser Gly Thr Phe Tyr Asp Gln Ala
 165 170 175
 Val Val Ser Asn Asp Met Glu Glu His Leu Glu Glu Pro Val Ala Glu
 180 185 190
 Pro Glu Pro Asp Pro Glu Pro Glu Pro Glu Gln Glu Pro Val Ser Glu
 195 200 205
 Ile Gln Glu Glu Lys Pro Glu Pro Val Leu Glu Glu Thr Ala Pro Glu
 210 215 220
 Asp Ala Gln Lys Ser Ser Ser Pro Ala Pro Ala Asp Ile Ala Gln Thr
 225 230 235 240
 Val Gln Glu Asp Leu Arg Thr Phe Ser Trp Ala Ser Val Thr Ser Lys
 245 250 255
 Asn Leu Pro Pro Ser Gly Ala Val Pro Val Thr Gly Ile Pro Pro His
 260 265 270
 Val Val Lys Val Pro Ala Ser Gln Pro Arg Pro Glu Ser Lys Pro Glu
 275 280 285
 Ser Gln Ile Pro Pro Gln Arg Pro Gln Arg Asp Gln Arg Val Arg Glu
 290 295 300
 Gln Arg Ile Asn Ile Pro Pro Gln Arg Gly Pro Arg Pro Ile Arg Glu
 305 310 315 320
 Ala Gly Glu Gln Gly Asp Ile Glu Pro Arg Arg Met Val Arg His Pro
 325 330 335
 Asp Ser His Gln Leu Phe Ile Gly Asn Leu Pro His Glu Val Asp Lys
 340 345 350
 Ser Glu Leu Lys Asp Phe Phe Gln Ser Tyr Gly Asn Val Val Glu Leu
 355 360 365
 Arg Ile Asn Ser Gly Gly Lys Leu Pro Asn Phe Gly Phe Val Val Phe
 370 375 380

ST98017US PCT.ST25.txt

Asp Asp Ser Glu Pro Val Gln Lys Val Leu Ser Asn Arg Pro Ile Met
385 390 395 400

Phe Arg Gly Glu Val Arg Leu Asn Val Glu Glu Lys Lys Thr Arg Ala
405 410 415

Ala Arg Glu Gly Asp Arg Arg Asp Asn Arg Leu Arg Gly Pro Gly Gly
420 425 430

Pro Arg Gly Gly Leu Gly Gly Gly Met Arg Gly Pro Pro Arg Gly Gly
435 440 445

Met Val Gln Lys Pro Gly Phe Gly Val Gly Arg Gly Leu Ala Pro Arg
450 455 460

Gln Glx
465

<210> 2
<211> 2129
<212> DNA
<213> homo sapiens

<400> 2
gcttgccctgt caggtcgact ctagagcccg ggtaccgagc tcgaattcgg cggggtttgt 60
actatcctcg gtgctgtggt gcagagctag ttcctctcca gctcagccgc gtaggtttgg 120
acatatttac tcttttcccc ccaggttgaa ttgaccaaag caatgggtgat ggagaagcct 180
agtcccctgc tggtcgggcg ggaatttggt agacagtatt acacactgct gaaccaggcc 240
ccagacatgc tgcatagatt ttatggaaaag aactcttctt atgtccatgg gggattggat 300
tcaaattggaa agccagcaga tgcagtctac ggacagaaaag aaatccacag gaaagtgatg 360
tcacaaaact tcaccaactg ccacaccaag attcgccatg ttgatgctca tgccacgcta 420
aatgatgggtg tggtagtcca ggtgatgggg cttctctcta acaacaacca ggctttgagg 480
agattcatgc aaacgtttgt ccttgctcct gaggggtctg ttgcaaataa attctatggt 540
cacaatgata tcttcagata ccaagatgag gtctttggtg ggtttgtcac tgagcctcag 600
gaggagtctg aagaagaagt agaggaacct gaagaaagca gcaaacacct gaggtggtac 660
ctgatgattc tggaactttc tatgatcagg cagttgtcag taatgacatg gaagaacatt 720
tagaggagcc tgttgctgaa ccagagcctg atcctgaacc agaaccagaa caagaacctg 780
tatctgaaat ccaagaggaa aagcctgagc cagtattaga agaaactgcc cctgaggatg 840
ctcagaagag ttcttctcca gcacctgcag acatagctca gacagtacag gaagacttga 900
ggacattttc ttgggcatct gtgaccagta agaatcttcc acccagtgga gctgttccag 960

ST98017US PCT.ST25.txt

```

ttactgggat accacctcat gttgttaaag taccagcttc acagccccgt ccagagtcta 1020
agcctgaatc tcagattcca ccacaaagac ctacagcgga tcaaagagtg cgagaacaac 1080
gaataaatat tcctccccaag aggggaccca gaccaatccg tgaggctggg gagcaagggtg 1140
acattgaacc ccgaagaatg gtgagacacc ctgacagtca ccaactcttc attggcaacc 1200
tgcctcatga agtggacaaa tcagagctta aagatttctt tcaaagttat ggaaacgtgg 1260
tgagagttgcg cattaacagt ggtgggaaat tacccaattt tggttttggt gtgtttgatg 1320
attctgagcc tgttcagaaa gtccttagca acaggcccat catgttcaga ggtgagggtcc 1380
gtctgaatgt cgaagagaag aagactcgag ctgccaggga aggcgaccga cgagataatc 1440
gccttcgggg acctggaggc cctcgagggtg ggctgggtgg tggaatgaga ggccctcccc 1500
gtggaggcat ggtgcagaaa ccaggatttg gagtgggaag ggggcttgcg ccacggcagt 1560
aatcttcatg gatcttcatg cagccataca aaccctgggt ccaacagaat ggtgaatttt 1620
cgacagcctt tggatatctg gagtatgacc ccagtctgtt ataaactgct taagtttgta 1680
taattttact ttttttggtg gttaatgggtg tgtgctccct ctccctctct tccctttcct 1740
gacctttagt ctttacttcc caattttgtg gaatgatatt ttaggaataa cggactttta 1800
cccgaattcg taatcatggg catagctgtt tccgtgtgaa attgttatcc gtcacaatt 1860
ccacacaaca tacgagccgg aagcataaag tgtaaagcct ggggtgccta atgagtgagc 1920
taactcacat taattgcgtt gcgctcactg cccgctttcc agtcgggaaa cctgtcgtgc 1980
cagcgatta atgaatcggc caacgcgcgg ggagaggcgg tttgcgtatt gggcgccagg 2040
gtggttttct tttcaccagt gagacgggca acagctgatt gcccttcacc gctggccctg 2100
agagagttgc agcaagcggg ccacgctgg 2129

```

<210> 3
 <211> 143
 <212> PRT
 <213> homo sapiens

<400> 3

Met Val Met Glu Lys Pro Ser Pro Leu Leu Val Gly Arg Glu Phe Val
 1 5 10 15

Arg Gln Tyr Tyr Thr Leu Leu Asn Gln Ala Pro Asp Met Leu His Arg
 20 25 30

Phe Tyr Gly Lys Asn Ser Ser Tyr Val His Gly Gly Leu Asp Ser Asn
 35 40 45

Gly Lys Pro Ala Asp Ala Val Tyr Gly Gln Lys Glu Ile His Arg Lys
 50 55 60

ST98017US PCT.ST25.txt

Val Met Ser Gln Asn Phe Thr Asn Cys His Thr Lys Ile Arg His Val
65 70 75 80

Asp Ala His Ala Thr Leu Asn Asp Gly Val Val Val Gln Val Met Gly
85 90 95

Leu Leu Ser Asn Asn Asn Gln Ala Leu Arg Arg Phe Met Gln Thr Phe
100 105 110

Val Leu Ala Pro Glu Gly Ser Val Ala Asn Lys Phe Tyr Val His Asn
115 120 125

Asp Ile Phe Arg Tyr Gln Asp Glu Val Phe Gly Gly Phe Val Thr
130 135 140

<210> 4
<211> 143
<212> PRT
<213> homo sapiens

<400> 4

Met Val Met Glu Lys Pro Ser Pro Leu Leu Val Gly Arg Glu Phe Val
1 5 10 15

Arg Gln Tyr Tyr Thr Leu Leu Asn Lys Ala Pro Glu Tyr Leu His Arg
20 25 30

Phe Tyr Gly Arg Asn Ser Ser Tyr Val His Gly Gly Val Asp Ala Ser
35 40 45

Gly Lys Pro Gln Glu Ala Val Tyr Gly Gln Asn Asp Ile His His Lys
50 55 60

Val Leu Ser Leu Asn Phe Ser Glu Cys His Thr Lys Ile Arg His Val
65 70 75 80

Asp Ala His Ala Thr Leu Ser Asp Gly Val Val Val Gln Val Met Gly
85 90 95

Leu Leu Ser Asn Ser Gly Gln Pro Glu Arg Lys Phe Met Gln Thr Phe
100 105 110

Val Leu Ala Pro Glu Gly Ser Val Pro Asn Lys Phe Tyr Val His Asn
115 120 125

Asp Met Phe Arg Tyr Glu Asp Glu Val Phe Gly Asp Ser Glu Pro
130 135 140

<210> 5
 <211> 13
 <212> PRT
 <213> Artificial

<220>
 <223> amino acids 22-34 of the G3BP protein

<400> 5

Leu Leu Asn Gln Ala Pro Asp Met Leu His Arg Phe Tyr
 1 5 10

<210> 6
 <211> 13
 <212> PRT
 <213> Artificial

<220>
 <223> amino acids 22-34 of the G3BP2 protein

<400> 6

Leu Leu Asn Lys Ala Pro Glu Tyr Leu His Arg Phe Tyr
 1 5 10

<210> 7
 <211> 14
 <212> PRT
 <213> artificial

<220>
 <223> amino acids 42-55 of the G3BP protein

<400> 7

His Gly Gly Leu Asp Ser Asn Gly Lys Pro Ala Asp Ala Val
 1 5 10

<210> 8
 <211> 14
 <212> PRT
 <213> Artificial

<220>
 <223> amino acids 42-55 of the G3BP2 protein

<400> 8

His Gly Gly Val Asp Ala Ser Gly Lys Pro Gln Glu Ala Val
 1 5 10

<210> 9
 <211> 14
 <212> PRT
 <213> artificial

<220>

<223> amino acids 97-111 of the G3BP protein

<400> 9

Leu Leu Ser Asn Asn Asn Gln Ala Leu Arg Arg Phe Met Gln
1 5 10

<210> 10

<211> 13

<212> PRT

<213> artificial

<220>

<223> amino acids 127-139 of the G3BP protein

<400> 10

His Asn Asp Ile Phe Arg Tyr Gln Asp Glu Val Phe Gly
1 5 10

<210> 11

<211> 36

<212> DNA

<213> artificial

<220>

<223> primer A

<400> 11

cccgtcgaca tggatgatgga gaagcctagt cccctg

36

<210> 12

<211> 32

<212> DNA

<213> artificial

<220>

<223> primer B

<400> 12

cccgggtcga ctttgtgaga cagtattaca ca

32

<210> 13

<211> 36

<212> DNA

<213> artificial

<220>

<223> primer C

<400> 13

cccgggtgcg gccgcctttc catttgaatc caatcc

36

<210> 14

<211> 228

<212> DNA

<213> artificial

ST98017US PCT.ST25.txt

<220>

<223> cDNA fragment containing vector and G3BP sequences

<400> 14

atggcccagg tgcagctgca ggtcatgggtg atggagaagc ctagtcccct gctggtcggg 60
 cgggaatttg tgagacagta ttacacactg ctgaaccagg cccagacat gctgcataga 120
 ttttatggaa agaactcttc ttatgtccat gggggattgg attcaaattg aaaggcggcc 180
 gcagaacaaa aactcatctc agaagaggat ctgaatgggg ccgcatag 228

<210> 15

<211> 75

<212> PRT

<213> artificial

<220>

<223> amino acids of 1-50 of the G3BP protein

<400> 15

Met Ala Gln Val Gln Leu Gln Val Met Val Met Glu Lys Pro Ser Pro
 1 5 10 15

Leu Leu Val Gly Arg Glu Phe Val Arg Gln Tyr Tyr Thr Leu Leu Asn
 20 25 30

Gln Ala Pro Asp Met Leu His Arg Phe Tyr Gly Lys Asn Ser Ser Tyr
 35 40 45

Val His Gly Gly Leu Asp Ser Asn Gly Lys Ala Ala Ala Glu Gln Lys
 50 55 60

Leu Ile Ser Glu Glu Asp Leu Asn Gly Ala Ala
 65 70 75

<210> 16

<211> 186

<212> DNA

<213> artificial

<220>

<223> cDNA fragment containing vector and G3BP sequences

<400> 16

atggcccagg tgcagctgca ggtctttgtg agacagtatt acacactgct gaaccaggcc 60
 ccagacatgc tgcatagatt ttatggaaag aactcttctt atgtccatgg gggattggat 120
 tcaaattggaa aggcggccgc agaacaaaaa ctcatctcag aagaggatct gaatggggcc 180
 gcatag 186

<210> 17

<211> 61
 <212> PRT
 <213> artificial

<220>
 <223> amino acids 15-50 of the G3BP protein

<400> 17

Met Ala Gln Val Gln Leu Gln Val Phe Val Arg Gln Tyr Tyr Thr Leu
 1 5 10 15

Leu Asn Gln Ala Pro Asp Met Leu His Arg Phe Tyr Gly Lys Asn Ser
 20 25 30

Ser Tyr Val His Gly Gly Leu Asp Ser Asn Gly Lys Ala Ala Ala Glu
 35 40 45

Gln Lys Leu Ile Ser Glu Glu Asp Leu Asn Gly Ala Ala
 50 55 60

<210> 18
 <211> 47
 <212> DNA
 <213> artificial

<220>
 <223> sq22s oligonucleotide

<400> 18
 tatgctgctg aaccaggccc cagacatgct gcatagattt tattaag

47

<210> 19
 <211> 49
 <212> DNA
 <213> artificial

<220>
 <223> sq22as oligonucleotide

<400> 19
 gatccttaat aaaatctatg cagcatgtct ggggcctggt tcagcagca

49

<210> 20
 <211> 44
 <212> DNA
 <213> artificial

<220>
 <223> sq44g1s oligonucleotide

<400> 20
 tatgggattg gattcaaag gaaagccagc agatgcagtc taag

44

<210> 21
 <211> 46

<212> DNA
 <213> artificial

 <220>
 <223> sq44g1as oligonucleotide

 <400> 21
 gatccttaga ctgcatctgc tggctttcca tttgaatcca atccca 46

 <210> 22
 <211> 44
 <212> DNA
 <213> artificial

 <220>
 <223> sq44g2s oligonucleotide

 <400> 22
 tatgggagta gatgctagtg gaaagcccca ggaagctgtt taag 44

 <210> 23
 <211> 46
 <212> DNA
 <213> artificial

 <220>
 <223> sq44g2as oligonucleotide

 <400> 23
 gatccttaaa cagcttcctg gggctttcca ctagcatcta ctccca 46

 <210> 24
 <211> 47
 <212> DNA
 <213> artificial

 <220>
 <223> sq64s oligonucleotide

 <400> 24
 tatgcagaaa gaaatccaca ggaaagtgat gtcacaaaac ttctaag 47

 <210> 25
 <211> 49
 <212> DNA
 <213> artificial

 <220>
 <223> sq64as oligonucleotide

 <400> 25
 gatccttaga agttttgtga catcactttc ctgtggattt ctttctgca 49

 <210> 26
 <211> 38
 <212> DNA
 <213> artificial

<220>

<223> sq65s oligonucleotide

<400> 26

tatgaaagtg atgtcacaaa acttcaccaa ctgctaag

38

<210> 27

<211> 40

<212> DNA

<213> artificial

<220>

<223> sq65as oligonucleotide

<400> 27

gaccccttagc agttgggtgaa gttttgtgac atcactttca

40